TAN

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

10/04/2006

STAAS & HALSEY LLP SUITE 700 1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005 EXAMINER

BONZO, BRYCE P

ART UNIT PAPER NUMBER

2113

DATE MAILED: 10/04/2006

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/743,140	12/23/2003	Yuji Nakamura	1081.1187	7492

TITLE OF INVENTION: BUS BRIDGE CIRCUIT, BUS CONNECTION SYSTEM, AND DATA ERROR NOTIFICATION METHOD FOR BUS BRIDGE

CIRCUIT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$300	\$0	\$1700	01/04/2007

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

maintenance fee notifica	ed below or directed of	herwise in Block 1, by (lock 1 for any change of address)	a) specifying a new co	respondence address lote: A certificate of	s; and/o	r (b) indicating a sepa	correspondence address as arate "FEE ADDRESS" for or domestic mailings of the
			i	ee(s) Transmittal. Tl apers. Each addition	nis certii al paper	ficate cannot be used f	or any other accompanying nt or formal drawing, must
21171	7590 10/04	1/2006	•			· ·	
	RK AVENUE, N.W	<i>.</i>	I S a t	hereby certify that t tates Postal Service ddressed to the Ma ransmitted to the USI	rtificate his Fee(with sul il Stop PTO (57	e of Mailing or Transits) Transmittal is being flicient postage for first ISSUE FEE address (1) 273-2885, on the design of the second of the s	mission g deposited with the United st class mail in an envelope above, or being facsimile ate indicated below.
WASHINGTON	N, DC 20003						(Depositor's name)
			-		-		(Signature)
			<u>t</u>				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/743,140 TITLE OF INVENTION CIRCUIT	12/23/2003 I: BUS BRIDGE CIRCU	JIT, BUS CONNECTION	Yuji Nakamura I SYSTEM, AND DAT.	A ERROR NOTIFIC	ATION	1081.1187 METHOD FOR BUS	7492 BRIDGE
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DU	E PREV. PAID ISSU	JE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$300	\$0		\$1700	01/04/2007
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
BONZO,	BRYCE P	2113	714-048000	_			
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required.		" Indication form ned. Use of a Customer	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
PLEASE NOTE: Un	less an assignee is ident th in 37 CFR 3.11. Comp	A TO BE PRINTED ON a signee operation of this form is NO	data will appear on the	patent. If an assignment.			ocument has been filed for
Please check the appropr	iate assignee category or	categories (will not be pr	rinted on the patent):	☐ Individual ☐ C	orporati	ion or other private gro	oup entity Government
4a. The following fce(s) Issue Fee Publication Fee (N	are submitted: No small entity discount p	permitted)	D. Payment of Fee(s): (P A check is enclosed Payment by credit The Director is here overpayment, to De	i. card. Form PTO-203	8 is atta	iched.	
5. Change in Entity Sta			_				
	s SMALL ENTITY state					TITY status. See 37 CF	FR 1.27(g)(2). The assignee or other party in
interest as shown by the	records of the United Sta	ites Patent and Trademark	Office.	n the applicant; a reg	istered a	attorney or agent; or th	e assignee or other party in
Authorized Signature	707 v mod			Date			
Typed or printed nam	e	-		Registration 1	No		
							by the USPTO to process) g gathering, preparing, and ne you require to complete utment of Commerce, P.O. for Patents, P.O. Box 1450,
Under the Paperwork Re	duction Act of 1995, no p	persons are required to res	spond to a collection of	information unless it	displays	s a valid OMB control	number.



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

APPLICATION NO.	FILING DATE	FILING DATE FIRST NAMED INVENTOR		CONFIRMATION NO.	
10/743,140	12/23/2003	Yuji Nakamura	1081.1187	7492	
21171	7590 10/04/2006		EXAM	INER	
STAAS & HAL	SEY LLP	BONZO, E	BONZO, BRYCE P		
SUITE 700		ART UNIT	PAPER NUMBER		
WASHINGTON,	K AVENUE, N.W. DC 20005		2113 DATE MAILED: 10/04/2006	5	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 588 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 588 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/743,140	NAKAMURA, YUJI
Notice of Allowability	Examiner	Art Unit
	Bryce P. Bonzo	2113
- The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in this applied or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. This communication is responsive to <u>12/23/03</u> .		
2. 🔀 The allowed claim(s) is/are <u>1-15</u> .		
3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 5. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying Indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the paper No. I	e been received. e been received in Application No cuments have been received in this of this communication to file a reply MENT of this application. iitted. Note the attached EXAMINER es reason(s) why the oath or declara st be submitted. son's Patent Drawing Review (PTO s Amendment / Comment or in the C .84(c)) should be written on the drawin the header according to 37 CFR 1.121(c)	complying with the requirements 'S AMENDMENT or NOTICE OF tion is deficient. 948) attached Office action of the back) of dd.
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT Attachment(s) Notice of References Cited (PTO-892) 		AL MATERIAL.
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	• •
3. ⊠ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Dat 7. ☐ Examiner's Amendn	e
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	_	ent of Reasons for Allowance Buyer Bonzo
	يم .	BRYCE'P. BONZO RIMARY FXAMINER

Application/Control Number: 10/743,140

Art Unit: 2113

Reasons for Allowance

Claims 1-15 are allowed for the reasons shown below. Applicant is reminded the claims are allowed as a whole and any modification to the claims may jeopardize this indication of allowability. The portions of the claims which in particular overcome the cited prior art are italicized below. All independent claims contain the same allowable subject matter, and as such claim 1 will be used for illustrative purposes.

1. A bus bridge circuit, which issues a read request to a first device in response to a read request from a second device, receives data from said first device via a first bus, and transfers the data to said second device via a second bus, comprising:

a data buffer, which receives and stores the data of said first device, and error detection information generated from said data and from byte enable signals specifying, in units of a prescribed number of bits, the parallel data from said bus bridge circuit on said first bus to be enabled;

an error detection information generation circuit, which generates new error detection information from byte enable signals specifying, in units of a prescribed number of bits, the parallel data from said second device on said second bus to be enabled, and from error detection data received in said data buffer, and

a controller, which transfers to said second device via said second bus the data of said data buffer and said new error detection information, in response to said byte enable signals of said second device.

	_	
FORM	PTO-	1449

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY DOCKET NO. APPLICATION NO.

LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

1081.1187	
FIRST NAMED INVENTOR	
Yuji NAKAMURA	
FILING DATE	GROUP ART UNIT
December 23, 2003	3.55.

U.S. PATENT DOCUMENTS

_				112/11 0000///2/110			
EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
-	AA						
	AB						
	AC						
	AD						
	AE						
	AF						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSI YES	ATION NO
BIB	AG	9-081502	03/1997	Japan			abs	
	АН							
	Al							
	AJ							
	AK							
	AL							

01	OTHER REFERENCES (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)							
	AM							
	AN							
	AO							

EXAMINER D	DATE CONSIDERED	9/20	1171
Muse P. FONS		11801	
EXAMINER: Initial if reference considered, whether or not citation is in	conformance with MPEP 609; Drav	v line through citation	n if not in conformance
and not considered. Include copy of this form with next communication			
1	• •		
1			

Notice of References Cited Application/Control No. 10/743,140 Examiner Bryce P. Bonzo Applicant(s)/Patent Under Reexamination NAKAMURA, YUJI Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	Α	US-5,155,843 A	10-1992	Stamm et al.	714/5
*	В	US-5,404,482 A	04-1995	Stamm et al.	711/145
*	С	US-2002/0046366 A1	04-2002	Ono, Kazuya	714/43
*	D	US-2004/0172581 A1	09-2004	Tamura et al.	714/718
*	E	U\$-6,934,903 B1	08-2005	Keltcher et al.	714/763
*	F	US-6,975,752 B2	12-2005	Dixon et al.	382/132
	G	US-			
	Н	US-			
	ı	US-			
-	J	US-			
	Κ	US-			
•	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	Ν					
	0					
	Р					
	a					<u>.</u>
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	w	
	×	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.



COMBOX 1450

ALEXANDRIA, VA 22313-1450

IF UNDELIVERABLE RETURN IN TEN DAYS

OFFICIAL BUSINESS

AN EQUAL OPPORTUNITY EMPLOYER

MAILED FROM ZIP CODE 22314

